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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,119	12/23/2004	Daniele Fregonese	102792-386(11050P4)	4877
27389 7590 04/30/2010 PARFOMAK, ANDREW N. NORRIS MCLAUGHLIN & MARCUS PA			EXAMINER	
			KHAN, AMINA S	
875 THIRD AVE, 8TH FLOOR NEW YORK, NY 10022			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			04/30/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/519,119	FREGONESE ET AL.
Office Action Summary	Examiner	Art Unit
	AMINA KHAN	1796
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 4/19 This action is FINAL . 2b) ☑ This Since this application is in condition for allowed closed in accordance with the practice under the second seco	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-14 and 16-28 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 and 16-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.	
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati prity documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

Application/Control Number: 10/519,119 Page 2

Art Unit: 1796

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April

19, 2010 has been entered.

2. Claims 1-14 and 16-28 are pending. Claim 15 has been cancelled. Claim 28 is

new. Claims 1,2,13 and 41 have been amended.

3. Claims 1-14,16,19-23 and 25-27 stand rejected under 35 U.S.C. 103(a) as being

unpatentable over Lykke et al. (US 6,242,405) for the reasons set forth in the previous

office action.

4. Claims 17,18 and 24 stand rejected under 35 U.S.C. 103(a) as being

unpatentable over Lykke et al. (US 6,242,405) in view of Gutierrez et al. (US 5,739,093)

for the reasons set forth in the previous office action.

Claim Rejections - 35 USC § 103

Application/Control Number: 10/519,119 Page 3

Art Unit: 1796

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-14,16,19-23 and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lykke et al. (US 6,242,405).

Lykke et al. teach detergent compositions for laundering (column 20, lines 1-5) comprising enzyme encapsulated particles where the core encapsulation polymer may be water-soluble (column 7, lines 65-67) wherein the enzyme is non-released during storage and only released during release into wash water (column 5, lines 55-60). Lykke et al. further teach the detergents comprise amylases and proteases (column 6, lines 25-35) and that one or more enzymes may be encapsulated together or separately (column 16, lines 20-30). Lykke et al. further teach gel compositions (column 16, lines 45-50) and compositions comprising water soluble calcium salts in concentrations of 1-40% (column 19, lines 1-15; column 20, lines 40-45), hydroxycarboxylate builders specifically citrates (column 23, lines 40-45), polyacrylates (column 24, lines 5-15), which meets the limitation of density aid, 00.00001% to 2% protease and amylase (column 24, lines 45-50, column 25, lines 35-50), coloring agents (column 28, lines 10-15), up to 70% water, 0-30% organic solvent (column 16, lines 40-45) and starch (column 28, lines 25-30). Lykke et al. further teach particles of sizes smaller than 30µm which can swell up to 2 times the size (60µm) (column 7, lines 5-45).

Lykke et al. do not teach the migration speed of the particles, viscosity or density of the composition, salt content of at least 80% of the non-aqueous component, ratio of enzyme present in gel and the enzyme present in particles, the percentage of starch and the difference in density of the gel and the particles.

It would have been obvious to one of ordinary skill in the art at the time the invention was made that the teachings of Lykke et al. would encompass the instantly claimed properties as Lykke et al. clearly teach gel concentrates comprising similar components at similar concentrations. The properties would be a direct function of the compositions of the gel and particles, and since similar components are combined in similar ratios, the consistency of the composition is expected to be similar to the instant composition.

It would have been further obvious to optimize the concentrations of the components of Lykke et al. to arrive at the instantly claimed percentages, ratios and properties because all of these parameters would be result effective variables influencing the cleaning properties of the laundering compositions. All these parameters would effect the overall penetration of the cleansing composition into the pores of the fibers and residence time on or in the fibers and the stability of the encapsulated particles as well as their controlled delivery. These parameters would therefore directly impact the overall cleansing ability. Optimization of the amount of salt in the non-aqueous portion of the composition would affect diffusion parameters and would ultimately affect release of the enzyme prematurely, and storage stability is a recognized parameter in the Lykke reference. Optimization of variable which effect

Application/Control Number: 10/519,119

Art Unit: 1796

storage stability would only require routine skill in the art and the skilled artisan would

have been motivated to arrive at "at least 70%" of the non-aqueous component of the

compositions comprising water-soluble ionic salt.

Optimization of result effective variables only requires routine skill in the art. One

Page 5

of ordinary skill in the art would have been motivated to optimize these parameters to

arrive at the optimal cleaning properties through controlled enzymatic release in the

wash cycle to prevent enzyme degradation during storage as taught by Lykke.

7. Claims 17,18 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Lykke et al. (US 6,242,405) in view of Gutierrez et al. (US 5,739,093).

Lykke et al. are relied upon as described in paragraph 6.

Lykke et al. do not teach the addition of dyes or pigments and propylene glycol.

Gutierrez et al. teach detergents for laundering comprising propylene glycol as a

conventional solvent combined with water and dyes as conventional coloring agents

used in detergents (column 8, lines 1-5; column 45, lines 45-60).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify the compositions of Lykke et al. by incorporating the

propylene glycols and dyes taught by Gutierrez et al. because Gutierrez et al. teach the

utility and conventionality of these ingredients in laundering compositions and Lykke et

al. invite the inclusion of coloring agents and organic solvents.

Response to Arguments

8. Applicant's arguments filed regarding Lykke et al. have been fully considered but they are not persuasive. The applicant argues that optimization of variables such as viscosity, density and salt content is phase dependent and since Lykke teaches only a liquid these parameters would not have been optimized. The examiner respectfully disagrees as Lykke et al. clearly teach gel concentrate compositions (column 16, lines 45-50). Since Lykke et al. do teach the gel phase, optimization of the parameters would have been feasible. All the claimed parameters would effect the overall penetration of the cleansing composition into the pores of the fibers and residence time on or in the fibers and the stability of the encapsulated particles as well as their controlled delivery. These parameters would therefore directly impact the overall cleansing ability. Optimization of result effective variables only requires routine skill in the art. One of ordinary skill in the art would have been motivated to optimize these parameters to arrive at the optimal cleaning properties through controlled enzymatic release in the wash cycle to prevent enzyme degradation during storage as taught by Lykke. Optimization of the amount of salt in the non-aqueous portion of the composition would affect diffusion parameters and would ultimately affect release of the enzyme prematurely, and storage stability is a recognized parameter in the Lykke reference. Optimization of variable which effect storage stability would only require routine skill in the art and the skilled artisan would have been motivated to arrive at "at least 70%" of the non-aqueous component of the compositions comprising water-soluble ionic salt.

Lykke et al. further teach that the water content in the concentrate may by up to 70% (column 16, lines 40-50) and therefore applicant's arguments that Lykke et al. only

teach water contents of less than 30% is not persuasive. No further arguments were presented for Lykke in view of Gutierrez. Accordingly, the rejections are maintained.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMINA KHAN whose telephone number is (571)272-5573. The examiner can normally be reached on Monday through Friday, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/519,119 Page 8

Art Unit: 1796

/Amina Khan/ Examiner, Art Unit 1796 April 28, 2010